

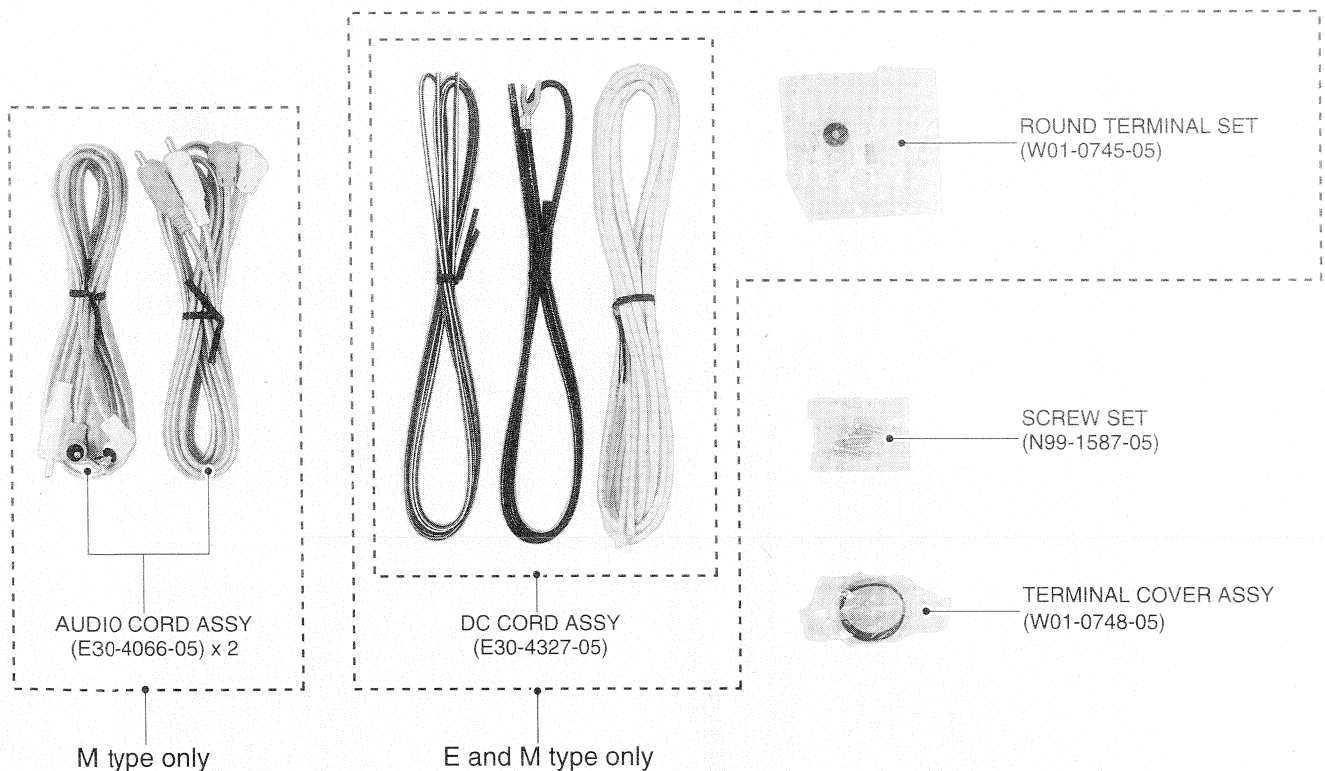
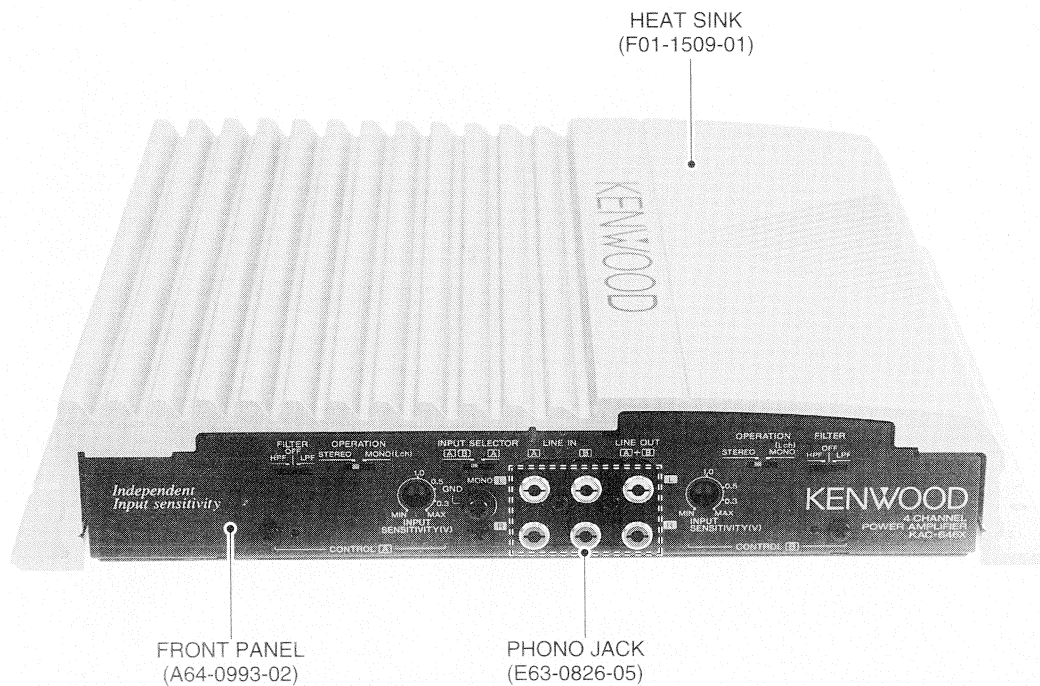
POWER AMPLIFIER

KAC-646X

SERVICE MANUAL

KENWOOD

© 1997-3 PRINTED IN KOREA
B51-7154-00 (K) 3621



CONTENTS / CONNECTION

CONTENTS

CONNECTION	2	PC BOARD	7
BLOCK DIAGRAM	3	SCHEMATIC DIAGRAM	9
COMPONENTS DESCRIPTION		EXPLODED VIEW	12
AUDIO UNIT (X09-5220-10)	4	PARTS LIST	13
ADJUSTMENT/EINSTELLUNGEN	5	SPECIFICATIONS	Back cover
ADJUSTMENT POINT VIEW	6		

CONNECTION

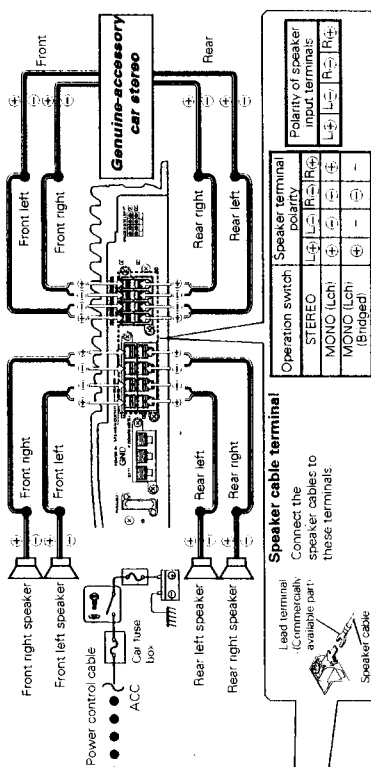
Connection

Speaker level input connection

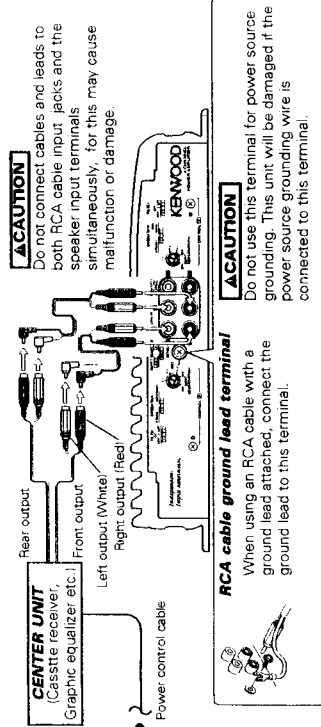
Connect the unit by inserting it in the connection between the genuine-accessory car stereo and speakers.

CAUTION

- The genuine-accessory car stereo shall have a maximum power output of no more than 25 W.
- Do not connect the speaker output leads from a power amplifier (Optional) to the speaker input terminals of this unit, for this may cause malfunction or damage.
- Do not connect cables and leads to both RCA cable input jacks and the speaker input terminals simultaneously, for this may cause malfunction or damage.
- Connect the power control lead to a power supply which can be turned ON/OFF by the ignition key switch (ACC line).
- With this connection, shock noise may be generated when the power of the genuine-accessory car stereo is switched ON/OFF.



RCA cable connection



Installation procedure

1. Remove the ignition key and disconnect the negative (-) terminal of the battery to prevent short circuits.
2. Connect the input and output cables of the units.
3. Connect the speaker cables.
4. Connect the ground cable and battery cable in the order listed.
5. Install the unit in the car.
6. Connect the negative (-) terminal of the battery.

CAUTION

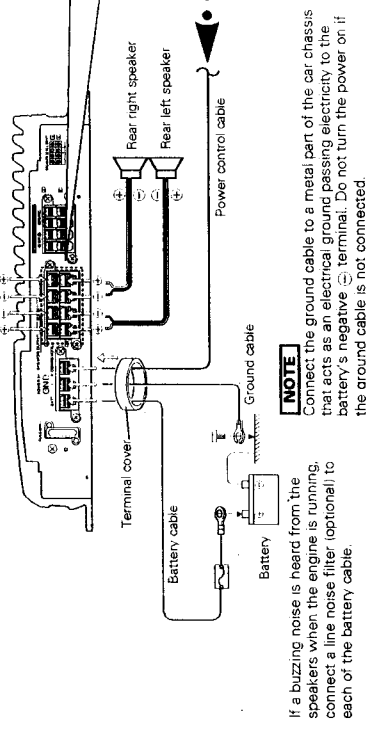
- If the fuse blows, check cables for shorts, then replace the fuse with one of the same rating.
- Check that no unconnected cables or connectors are touching the car body. Do not remove caps from unconnected cables or connectors to prevent short circuits.
- Connect the speaker cables to appropriate speaker connectors separately. Sharing the negative cable of the speaker or grounding speaker cables to the metal body of the car can cause this unit to fail.
- After installation, check that the brake lamps, wipers, and wipers work properly.

Connection

Power and Speakers cable connection

WARNING

To prevent fire caused by a short in the wiring, connect a fusible link or breaker nearby the battery's positive terminal.

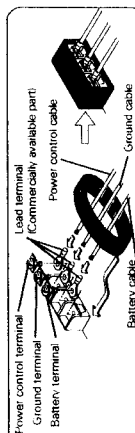


NOTE

If a buzzing noise is heard from the speakers when the engine is running, connect a line noise filter (optional) to each of the battery cable.

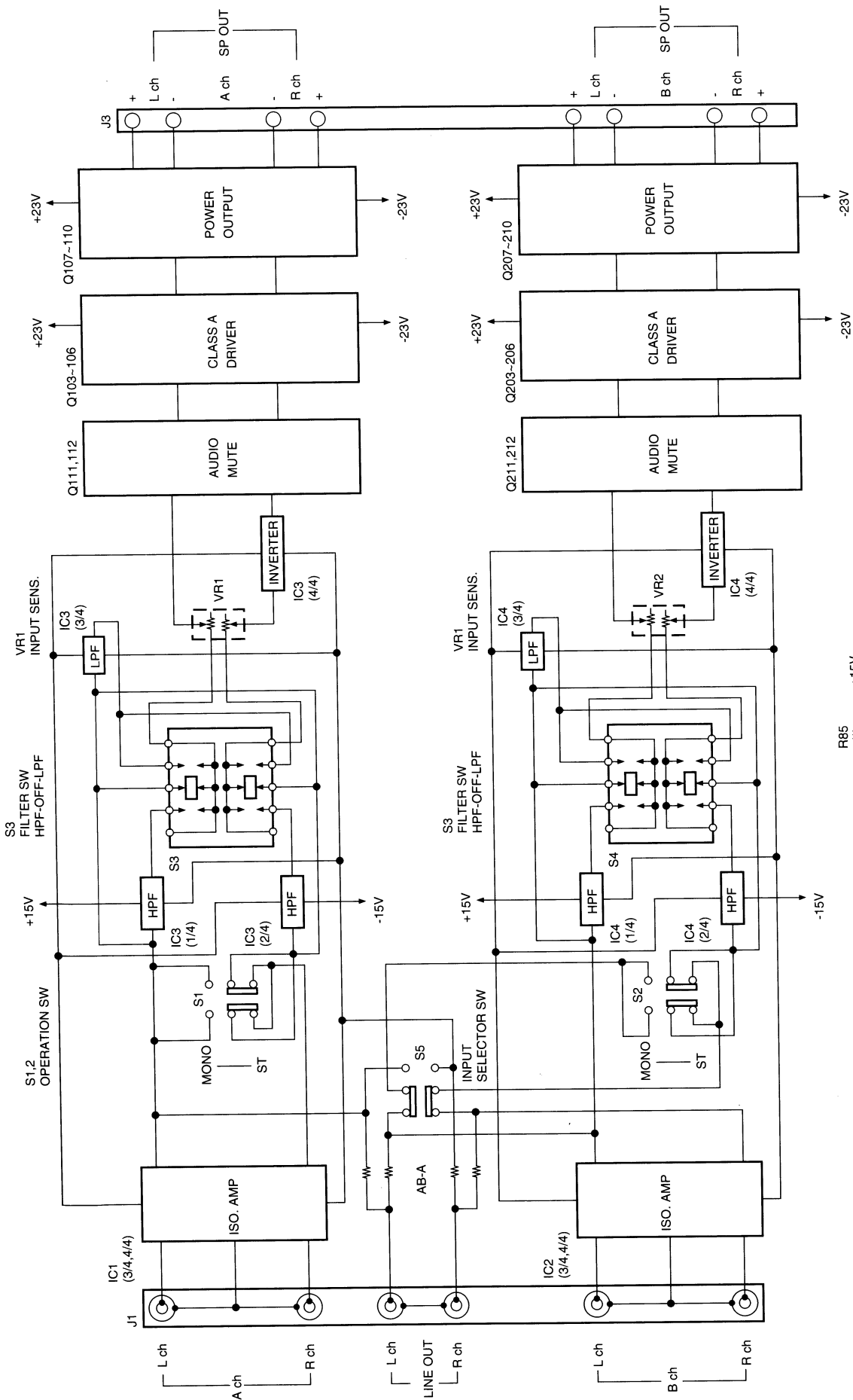
Power terminal

Pass battery and ground cables through supplied terminal cover and connect to respective terminals. After completing connectors, fasten terminal cover over terminal bracket.



KAC-646X

BLOCK DIAGRAM



KAC-646X(K)

KAC-646X

COMPONENTS DESCRIPTION

AUDIO UNIT (X09-5220-10)

Ref. No.	Use / Function	Operation / Condition
Q9~12	OVER CURRENT PROTECTOR	Stops IC7 working when over current runs into the base terminal.
Q15	OVER VOLTAGE PROTECTOR	Stops IC7 working when the power supply voltage is over 17V.

KAC-646X

ADJUSTMENT

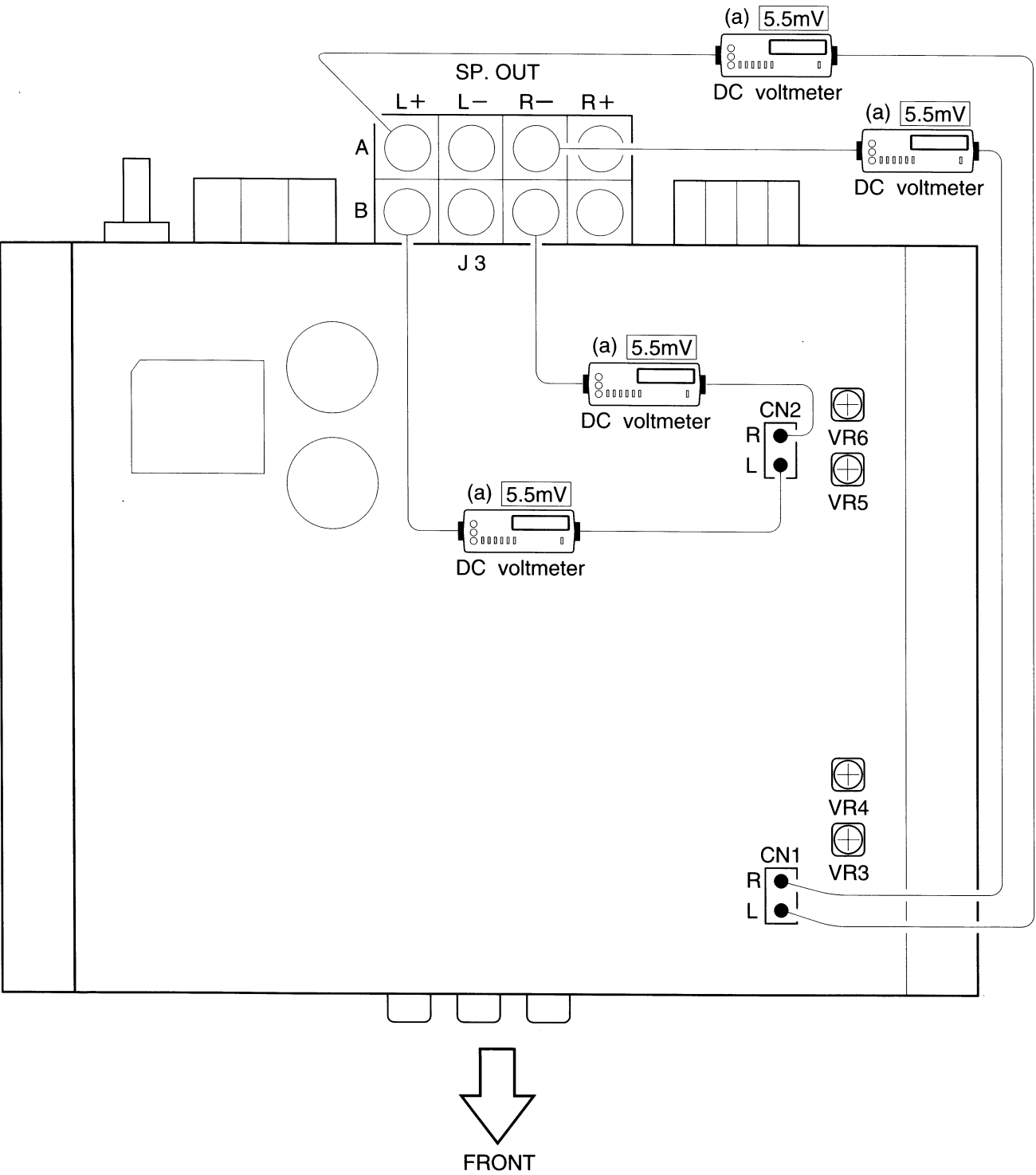
No.	Item	Input Setting	Output Setting	Amp. Setting	Adjustment Point	Adjustment Method	Fig.
Connect the cassette receiver, etc.							
1	IDLE CURRENT	—	Connect a DC voltmeter between CN1/CN2 and J3(SP.OUT, L+/R-)	VOLUME : 0	(A) VR3(Lch) VR4(Rch) (B) VR5(Lch) VR6(Rch)	5.5mV	(a)

EINSTELLUNGEN

Nr.	Gegenstand	Eingangseinstellung	Ausgangseinstellung	Verstaerkereinstellung	Einstellpunkt	Einstellmethode	Abb.
Das Kassettengerat, den Empfaenger usw. anschliessen.							
1	IDLE CURRENT	—	Ein Gleichstrom-Voltmeter zwischen CN1/CN2 und J3(SP.OUT, L+/R-)	VOLUM : 0	(A) VR3(Lch) VR4(Rch) (B) VR5(Lch) VR6(Rch)	5.5mV	(a)

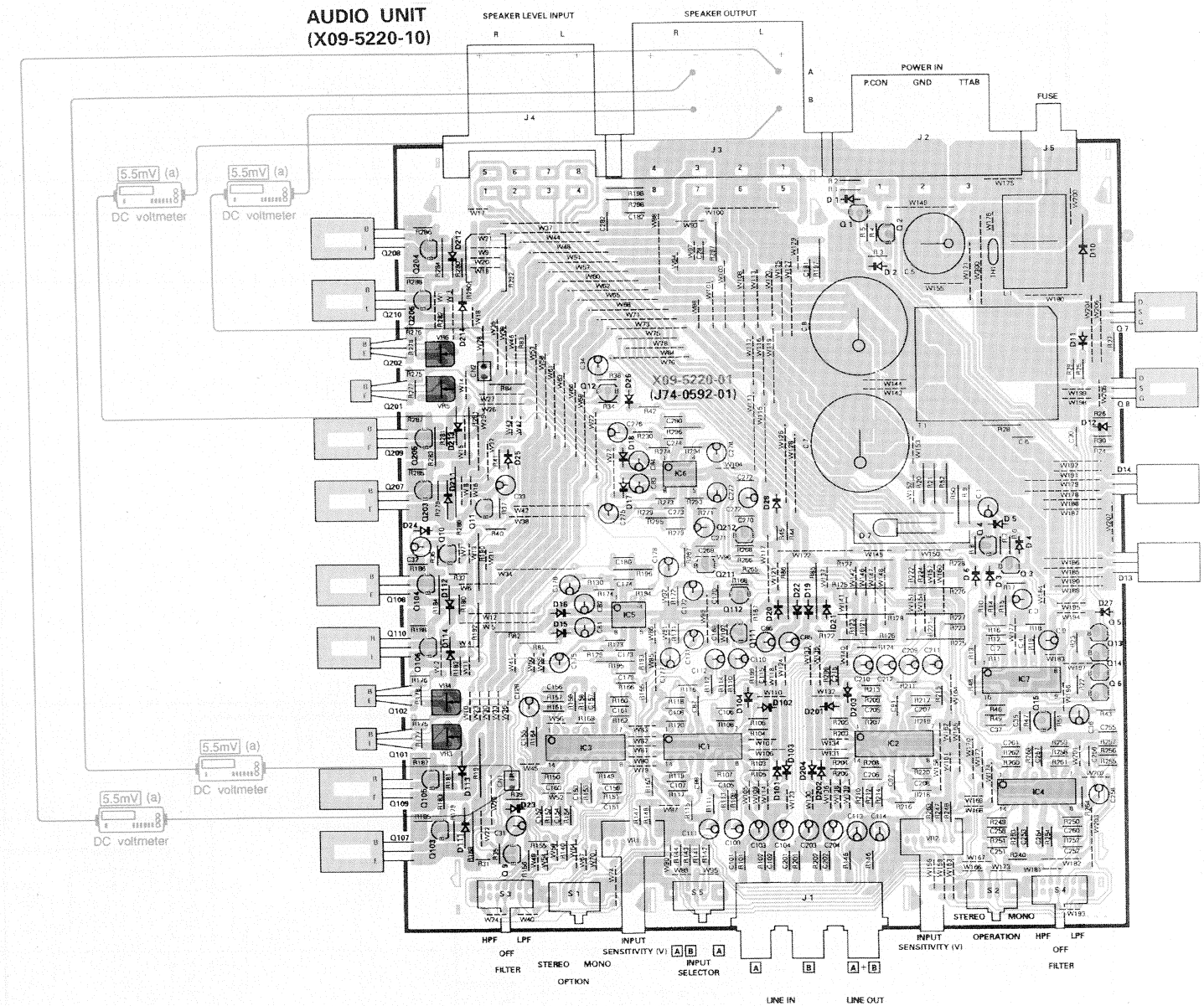
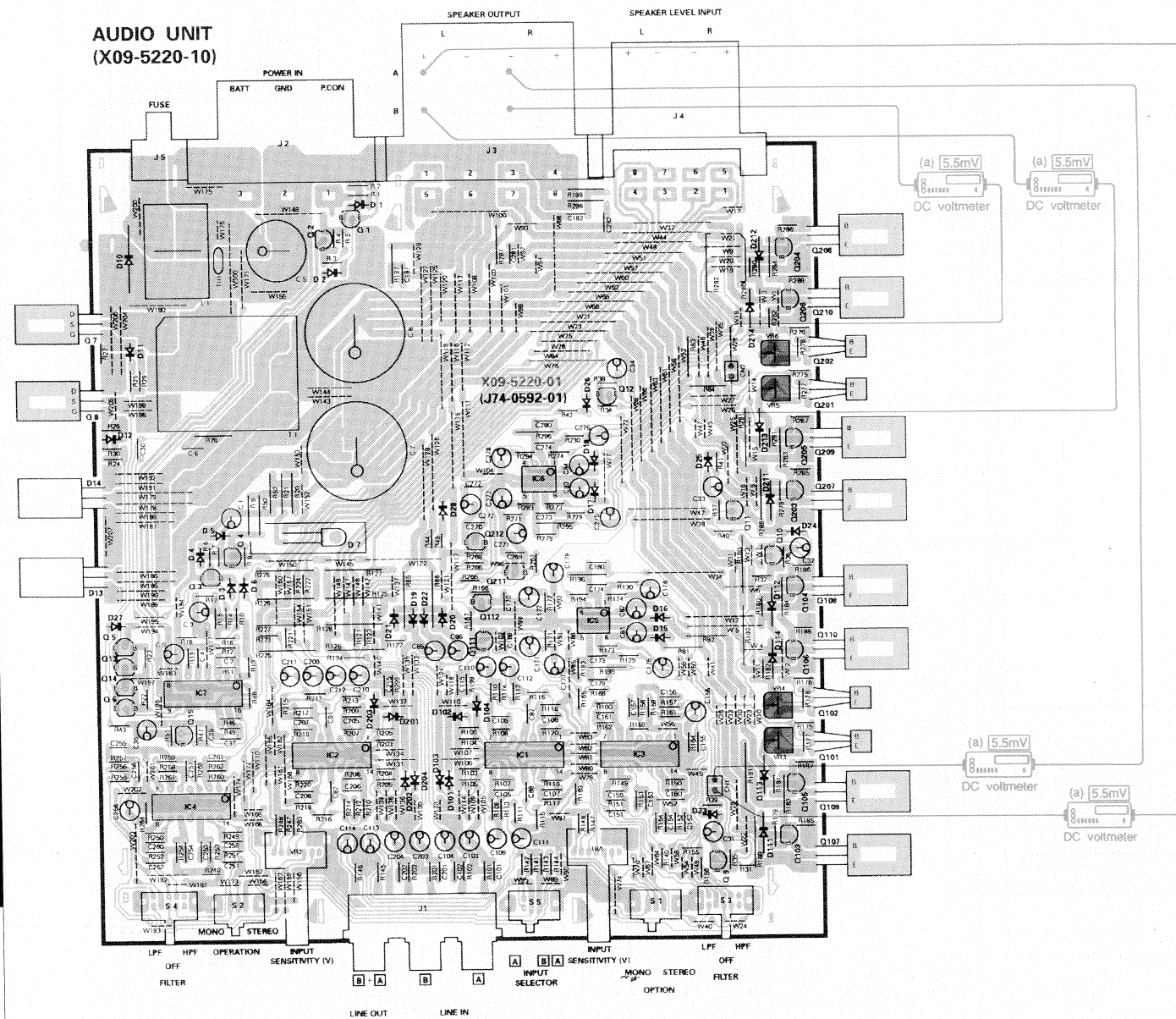
KAC-646X

ADJUSTMENT POINT VIEW



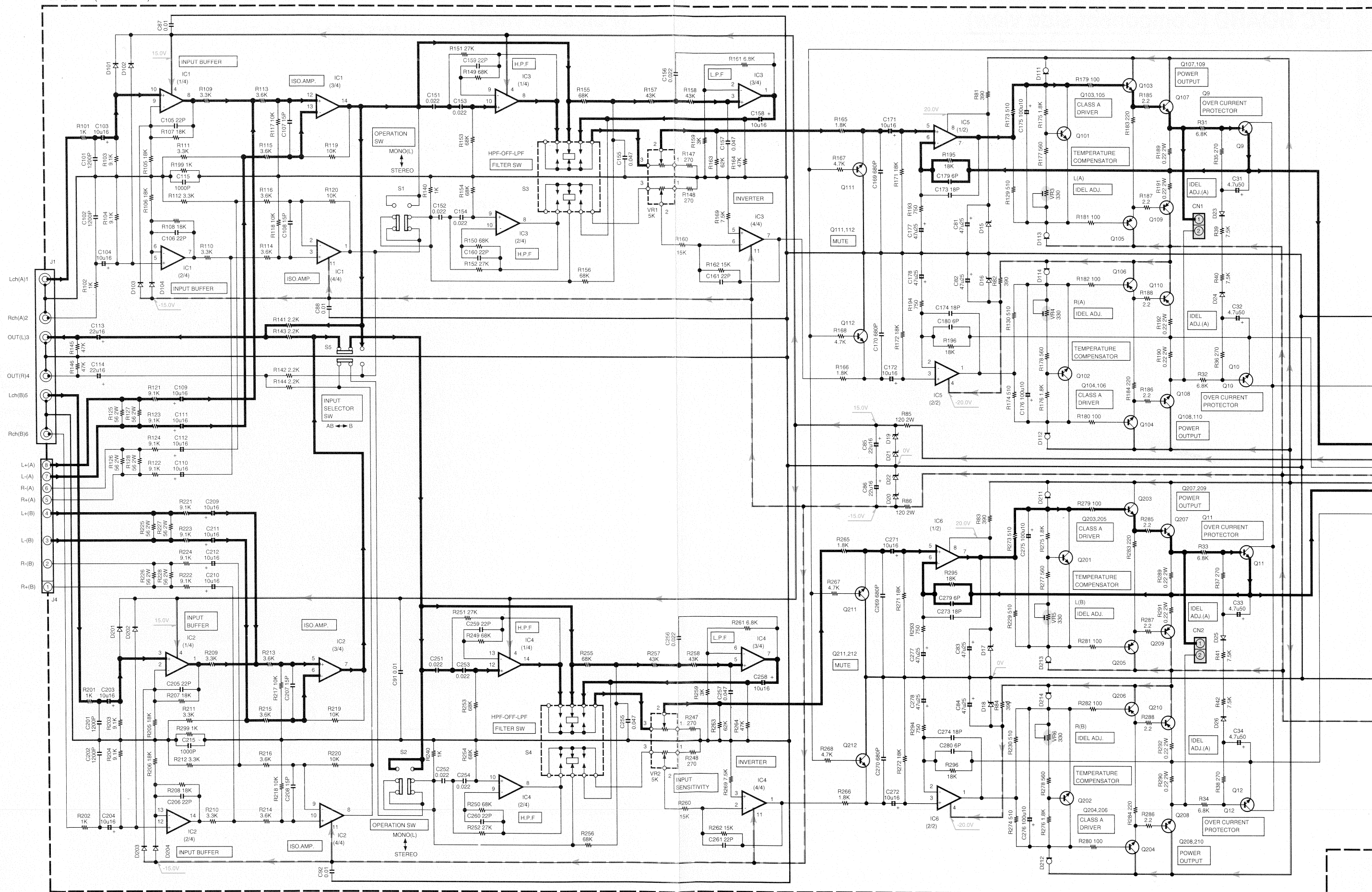
PC BOARD (Component side view)

(Foil side view)



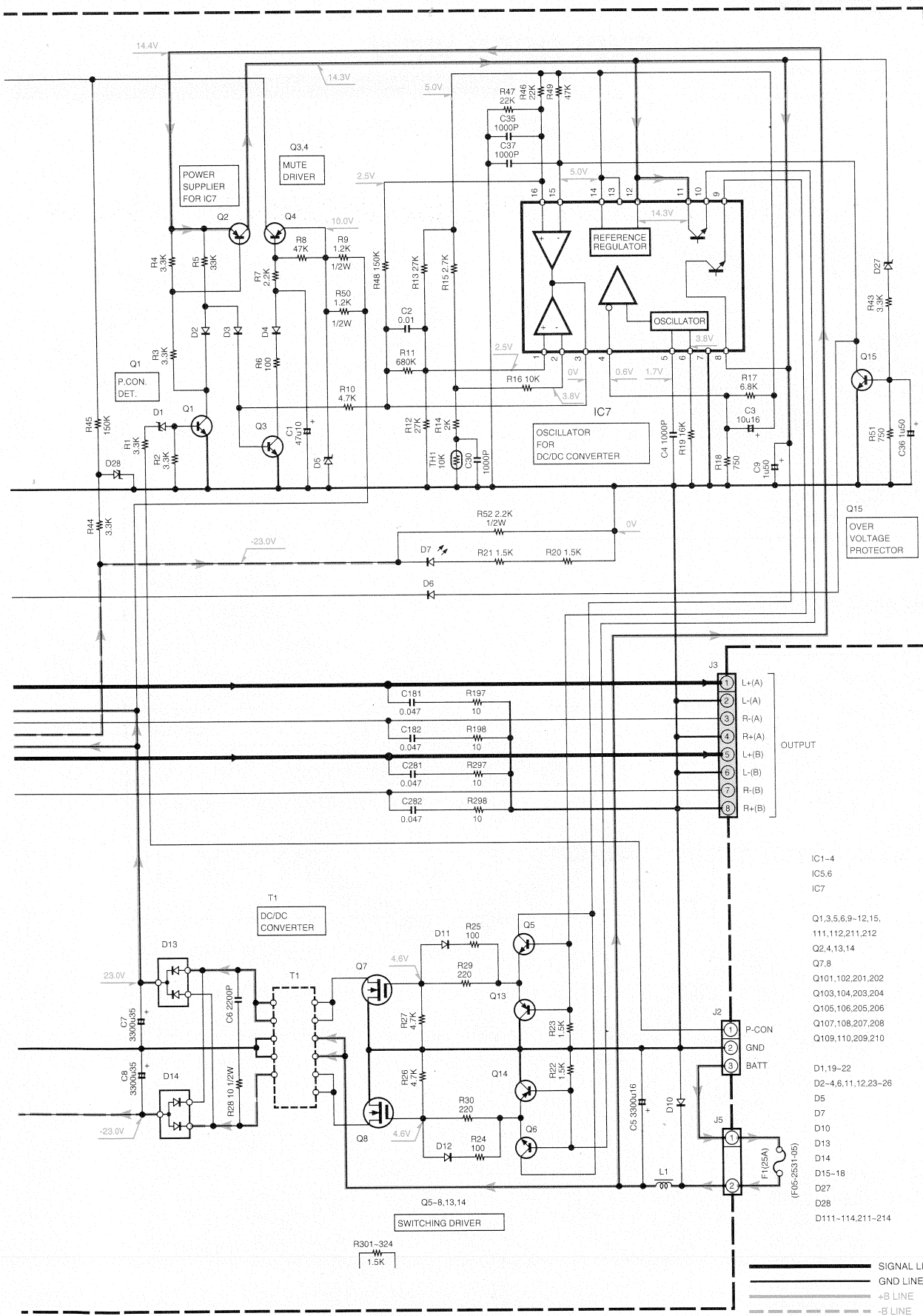
Refer to the schematic diagram for the values of resistors and capacitors.

AUDIO UNIT (X09-5220-10)



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



IC1-4	: UPC4574C
IC5,6	: M5219P
IC7	: UPC494C
Q1,3,5,6,9-12,15, 111,112,211,212	: 2SC945(A)(Q,P)
Q2,4,13,14	: 2SA733(A)(Q,P)
Q7,8	: MTAJ50N05HDLFK
Q101,102,201,202	: 2SC945(A)(Q)
Q103,104,203,204	: 2SC1627A
Q105,106,205,206	: 2SA817A
Q107,108,207,208	: 2SC4511*B
Q109,110,209,210	: 2SA1725*B
D1,19-22	: RD7.5JS(B)
D2-4,6,11,12,23-26	: MA165
D5	: RD10JS(B)
D7	: B30-1460-05
D10	: RM42LF-J1
D13	: FMU22S*A
D14	: FMU22R*A
D15-18	: RD20JS(B)
D27	: RD15JS(B)
D28	: RD5.1JS(B)
D111-114,211-214	: E-562

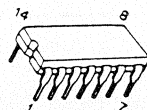
— SIGNAL LINE
— GND LINE
— +B LINE
— -B LINE

KAC-646X(K)

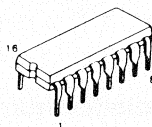
2SA1725*B
2SC4511*B



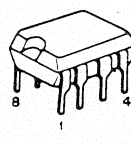
UPC4574C



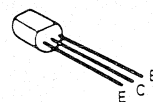
UPC494C



M5219P

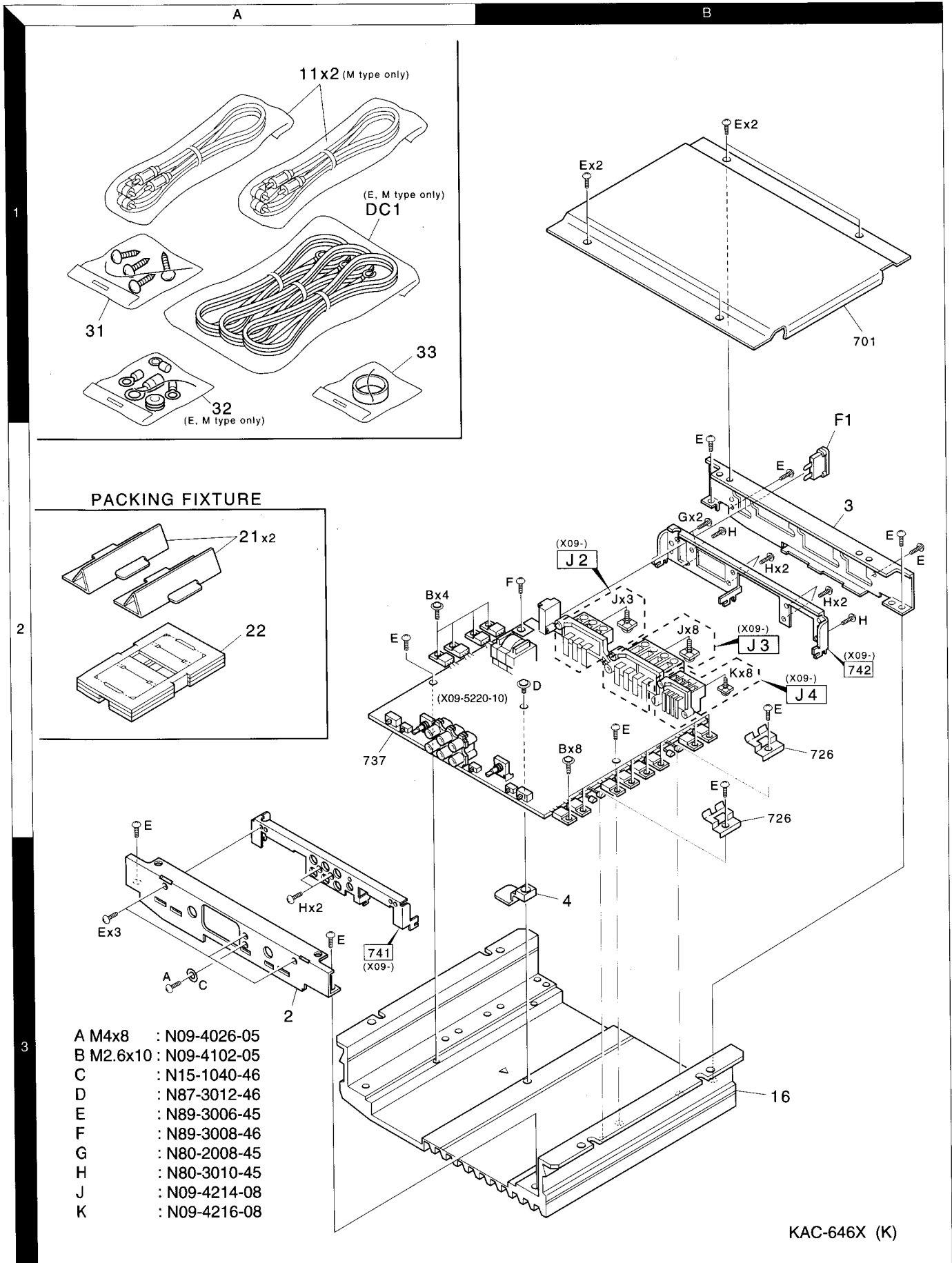


2SA733(A)
2SA817A
2SC1627A
2SC945(A)



KAC-646X

EXPLODED VIEW



PARTS LIST

*New Parts

Parts without **Part No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

(X09-5220-10)

Refer. No.	A d d	N e w	Parts No.	Description	Desti-nation
KAC-646X					
2	3A	*	A64-0993-02	FRONT PANEL	
3	2B	*	A84-0117-02	REAR PANEL	
4	3B		B19-1061-03	LIGHTING BOARD	
-			B46-0100-50	WARRANTY CARD	
-		*	B64-0898-00	INST.MANUAL (ENGLISH,FRENCH)	K
-		*	B64-0899-00	INST.MANUAL (SPANISH)	K
-		*	B64-0900-00	INST.MANUAL (ENGLISH,FRENCH)	E
-		*	B64-0901-00	INST.MANUAL (GERMAN,DUTCH)	E
-		*	B64-0902-00	INST.MANUAL (ITALIAN,SPANISH)	E
-		*	B64-0903-00	INST.MANUAL (PORTUGUESE)	E
-		*	B64-0904-00	INST.MANUAL (ENGLISH,FRENCH)	M
-		*	B64-0905-00	INST.MANUAL (SPANISH)	M
11	1A		E30-4066-05	AUDIO CORD ASSY	M
Δ DC1	1A		E30-4327-05	DC CORD ASSY (C.C.)	EM
16	3B	*	F01-1509-01	HEAT SINK	
F1	1B		F05-2531-05	FUSE (25A, BLADE TYPE)	
21	2A		H12-2606-14	PACKING FIXTURE (x2)	
22	2A	*	H12-2609-03	PACKING FIXTURE (x1)	
-			H25-0321-04	PROTECTION BAG (600x315x0.03)	
-			H25-0336-04	PROTECTION BAG (170x250x0.03)	
-		*	H54-0714-03	ITEM CARTON CASE	
A	3A		N09-4026-05	TAPPING SCREW (M4x8, TP,S)	
B	2A		N09-4102-05	SEMS (MACHINE SCREW)(M2.6x10)	
C	3A		N15-1040-46	FLAT WASHER	
D	2B		N87-3012-46	BRAZIER HEAD TAPTITE SCREW	
E	1B		N89-3006-45	BINDING HEAD TAPTITE SCREW	
F	2B		N89-3008-46	BINDING HEAD TAPTITE SCREW	
31	1A		N99-1587-05	SCREW SET	
Δ 32	1A		W01-0745-05	ROUND TERMINAL SET (C.C.)	EM
33	1A		W01-0748-05	TERMINAL COVER ASSY	
AUDIO UNIT (X09-5220-10)					
D7			B30-1460-05	LED (RED)	
C1			CE04DW1A470M	ELECTRO 47UF 10WV	
C2			CK45FF1H103Z	CERAMIC 0.010UF Z	
C3			CE04DW1C100M	ELECTRO 10UF 16WV	
C4			CF92FV1H102J	MF-C 1000PF J	
C5			C90-2689-05	ELECTRO 3300UF 16WV	
C6			CF92FV1H222J	MF-C 2200PF J	
C7 ,8			C90-1616-05	ELECTRO 3300UF 35WV	
C9			CE04DW1H010M	ELECTRO 1.0UF 50WV	
C30			CK45FB1H102K	CERAMIC 1000PF K	
C31 -34			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C35			CK45FB1H102K	CERAMIC 1000PF K	
C36			CE04DW1H010M	ELECTRO 1.0UF 50WV	
C37			CK45FB1H102K	CERAMIC 1000PF K	
C81 -84			CE04DW1E470M	ELECTRO 47UF 25WV	
C85 ,86			CE04DW1C220M	ELECTRO 22UF 16WV	

Refer. No.	A d d	N e w	Parts No.	Description	Desti-nation
C87 ,88			CK45FF1H103Z	CERAMIC 0.010UF Z	
C91 ,92			CK45FF1H103Z	CERAMIC 0.010UF Z	
C101,102			CK45FB1H122K	CERAMIC 1200PF K	
C103,104			CE04DW1C100M	ELECTRO 10UF 16WV	
C105,106			CC45FSL1H220J	CERAMIC 22PF J	
C107,108			CC45FCH1H150J	CERAMIC 15PF J	
C109-112			CE04DW1C100M	ELECTRO 10UF 16WV	
C113,114			CE04DW1C220M	ELECTRO 22UF 16WV	
C115			CF92FV1H102J	MF-C 1000PF J	
C151-154			CF92FV1H223J	MF-C 0.022UF J	
C155			CF92FV1H473J	MF-C 0.047UF J	
C156			CF92FV1H223J	MF-C 0.022UF J	
C157			CF92FV1H473J	MF-C 0.047UF J	
C158			CE04DW1C100M	ELECTRO 10UF 16WV	
C159-161			CC45FSL1H220J	CERAMIC 22PF J	
C169,170			CK45FB1H681K	CERAMIC 680PF K	
C171,172			CE04DW1C100M	ELECTRO 10UF 16WV	
C173,174			CC45FSL1H180J	CERAMIC 18PF J	
C175,176			CE04DW1A101M	ELECTRO 100UF 10WV	
C177,178			CE04DW1E470M	ELECTRO 47UF 25WV	
C179,180			CC45FSL1H060D	CERAMIC 6.0PF D	
C181,182			CF92FV1H473J	MF-C 0.047UF J	
C201,202			CK45FB1H122K	CERAMIC 1200PF K	
C203,204			CE04DW1C100M	ELECTRO 10UF 16WV	
C205,206			CC45FSL1H220J	CERAMIC 22PF J	
C207,208			CC45FCH1H150J	CERAMIC 15PF J	
C209-212			CE04DW1C100M	ELECTRO 10UF 16WV	
C215			CF92FV1H102J	MF-C 1000PF J	
C251-254			CF92FV1H223J	MF-C 0.022UF J	
C255			CF92FV1H473J	MF-C 0.047UF J	
C256			CF92FV1H223J	MF-C 0.022UF J	
C257			CF92FV1H473J	MF-C 0.047UF J	
C258			CE04DW1C100M	ELECTRO 10UF 16WV	
C259-261			CC45FSL1H220J	CERAMIC 22PF J	
C269,270			CK45FB1H681K	CERAMIC 680PF K	
C271,272			CE04DW1C100M	ELECTRO 10UF 16WV	
C273,274			CC45FSL1H180J	CERAMIC 18PF J	
C275,276			CE04DW1A101M	ELECTRO 100UF 10WV	
C277,278			CE04DW1E470M	ELECTRO 47UF 25WV	
C279,280			CC45FSL1H060D	CERAMIC 6.0PF D	
C281,282			CF92FV1H473J	MF-C 0.047UF J	
CN1 ,2			E40-3640-05	PIN ASSY (2P) (IDLE ADJ.)	
Δ J1	2B		E63-0826-05	PHONO JACK (6P)	
J2	2B		E70-0807-05	TERMINAL BOARD ASSY (3P) (CC)	
J3	2B		E70-0819-05	TERMINAL BOARD ASSY (8P)	
Δ J4	2B		E70-0821-05	TERMINAL BOARD ASSY (8P)	
Δ J5			J13-0602-05	FUSE HOLDER (C.C.)	
L1			L33-1032-05	CHOKE COIL	
T1	*		L19-0556-05	DC/DC CONVERTER	
G	2B		N80-2008-45	PAN HEAD TAPTITE SCREW	
H	2B		N80-3010-45	PAN HEAD TAPTITE SCREW	
J	2B	*	N09-4214-08	SEMS (MACHINE SCREW) (J2,3)	
K	2B	*	N09-4216-08	SEMS (MACHINE SCREW) (J4)	

E: Europe **K:** North America **M:** Other Areas
W: Without Europe

Δ indicates safety critical components.

PARTS LIST

*New Parts

Parts without **Part No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.


Teile ohne **Parts No.** werden nicht geliefert.

(X09-5220-10)

Refer. No.	A d d w	Parts No.	Description	Desti- nation
R1 -4		RD14BB2C332J	RD 3.3K J 1/6W	
R5		RD14BB2C333J	RD 33K J 1/6W	
R6		RD14BB2C101J	RD 100 J 1/6W	
R7		RD14BB2C222J	RD 2.2K J 1/6W	
R8		RD14BB2C473J	RD 47K J 1/6W	
R9		RD14DB2H122J	SMALL-RD 1.2K J 1/2W	
R10		RD14BB2C472J	RD 4.7K J 1/6W	
R11		RD14BB2C684J	RD 680K J 1/6W	
R12, 13		RD14BB2C273J	RD 27K J 1/6W	
R14		RD14BB2C202J	RD 2.0K J 1/6W	
R15		RD14BB2C272J	RD 2.7K J 1/6W	
R16		RD14BB2C103J	RD 10K J 1/6W	
R17		RD14BB2C682J	RD 6.8K J 1/6W	
R18		RD14BB2C751J	RD 750 J 1/6W	
R19		RD14BB2C163J	RD 16K J 1/6W	
R20, 21		RD14BB2E152J	RD 1.5K J 1/4W	
R22, 23		RD14BB2C152J	RD 1.5K J 1/6W	
R24, 25		RD14BB2C101J	RD 100 J 1/6W	
R26, 27		RD14BB2C472J	RD 4.7K J 1/6W	
R28		RD14DB2H100J	SMALL-RD 10 J 1/2W	
R29, 30		RD14BB2C221J	RD 220 J 1/6W	
R31 -34		RD14BB2C682J	RD 6.8K J 1/6W	
R35 -38		RD14BB2C271J	RD 270 J 1/6W	
R39 -42		RD14BB2C752J	RD 7.5K J 1/6W	
R43, 44		RD14BB2C332J	RD 3.3K J 1/6W	
R45		RD14BB2C154J	RD 150K J 1/6W	
R46, 47		RD14BB2C223J	RD 22K J 1/6W	
R48		RD14BB2C154J	RD 150K J 1/6W	
R49		RD14BB2C473J	RD 47K J 1/6W	
R50		RD14DB2H122J	SMALL-RD 1.2K J 1/2W	
R51		RD14BB2C751J	RD 750 J 1/6W	
R52		RD14DB2H222J	SMALL-RD 2.2K J 1/2W	
R81 -84		RD14BB2C391J	RD 390 J 1/4W	
R85, 86		RS14KB3D121J	FL-PROOF RS 120 J 2W	
R101, 102		RD14BB2C102J	RD 1.0K J 1/6W	
R103, 104		RD14BB2C912J	RD 9.1K J 1/6W	
R105-108		RD14BB2C183J	RD 18K J 1/6W	
R109-112		RD14BB2C332J	RD 3.3K J 1/6W	
R113-116		RD14BB2C362J	RD 3.6K J 1/6W	
R117-120		RD14BB2C103J	RD 10K J 1/6W	
R121-124		RD14BB2C912J	RD 9.1K J 1/6W	
R125-128		RS14KB3D560J	FL-PROOF RS 56 J 2W	
R129, 130		RD14BB2C511J	RD 510 J 1/6W	
R140		RD14BB2C102J	RD 1.0K J 1/6W	
R141-144		RD14BB2C222J	RD 2.2K J 1/6W	
R145, 146		RD14BB2C473J	RD 47K J 1/6W	
R147, 148		RD14BB2C271J	RD 270 J 1/6W	
R149, 150		RD14BB2C683J	RD 68K J 1/6W	
R151, 152		RD14BB2C273J	RD 27K J 1/6W	
R153-156		RD14BB2C683J	RD 68K J 1/6W	
R157, 158		RD14BB2C433J	RD 43K J 1/6W	
R159		RD14BB2C302J	RD 3.0K J 1/6W	
R160		RD14BB2C153J	RD 15K J 1/6W	
R161		RD14BB2C682J	RD 6.8K J 1/6W	
R162		RD14BB2C153J	RD 15K J 1/6W	

Refer. No.	A d d w	Parts No.	Description	Desti- nation
R163		RD14BB2C623J	RD 62K J 1/6W	
R164		RD14BB2C473J	RD 47K J 1/6W	
R165, 166		RD14BB2C182J	RD 1.8K J 1/6W	
R167, 168		RD14BB2C472J	RD 4.7K J 1/6W	
R169		RD14BB2C752J	RD 7.5K J 1/6W	
R171, 172		RD14BB2C183J	RD 18K J 1/6W	
R173, 174		RD14BB2C511J	RD 510 J 1/6W	
R175, 176		RD14BB2C182J	RD 1.8K J 1/6W	
R177, 178		RD14BB2C561J	RD 560 J 1/6W	
R179-182		RD14BB2C101J	RD 100 J 1/6W	
R183, 184		RD14BB2E221J	RD 220 J 1/4W	
R185-188		RD14BB2C2R2J	RD 2.2 J 1/6W	
R189-192		RS14KB3DR22J	FL-PROOF RS 0.22 J 2W	
R193, 194		RD14BB2C751J	RD 750 J 1/6W	
R195, 196		RD14BB2E183J	RD 18K J 1/4W	
R197, 198		RD14BB2E100J	RD 10 J 1/4W	
R199		RD14BB2C102J	RD 1.0K J 1/6W	
R201, 202		RD14BB2C102J	RD 1.0K J 1/6W	
R203, 204		RD14BB2C912J	RD 9.1K J 1/6W	
R205-208		RD14BB2C183J	RD 18K J 1/6W	
R209-212		RD14BB2C332J	RD 3.3K J 1/6W	
R213-216		RD14BB2C362J	RD 3.6K J 1/6W	
R217-220		RD14BB2C103J	RD 10K J 1/6W	
R221-224		RD14BB2C912J	RD 9.1K J 1/6W	
R225-228		RS14KB3D560J	FL-PROOF RS 56 J 2W	
R229, 230		RD14BB2C511J	RD 510 J 1/6W	
R240		RD14BB2C102J	RD 1.0K J 1/6W	
R247, 248		RD14BB2C271J	RD 270 J 1/6W	
R249, 250		RD14BB2C683J	RD 68K J 1/6W	
R251, 252		RD14BB2C273J	RD 27K J 1/6W	
R253-256		RD14BB2C683J	RD 68K J 1/6W	
R257, 258		RD14BB2C433J	RD 43K J 1/6W	
R259		RD14BB2C302J	RD 3.0K J 1/6W	
R260		RD14BB2C153J	RD 15K J 1/6W	
R261		RD14BB2C682J	RD 6.8K J 1/6W	
R262		RD14BB2C153J	RD 15K J 1/6W	
R263		RD14BB2C623J	RD 62K J 1/6W	
R264		RD14BB2C473J	RD 47K J 1/6W	
R265, 266		RD14BB2C182J	RD 1.8K J 1/6W	
R267, 268		RD14BB2C472J	RD 4.7K J 1/6W	
R269		RD14BB2C752J	RD 7.5K J 1/6W	
R271, 272		RD14BB2C183J	RD 18K J 1/6W	
R273, 274		RD14BB2C511J	RD 510 J 1/6W	
R275, 276		RD14BB2C182J	RD 1.8K J 1/6W	
R277, 278		RD14BB2C561J	RD 560 J 1/6W	
R279-282		RD14BB2C101J	RD 100 J 1/6W	
R283, 284		RD14BB2E221J	RD 220 J 1/4W	
R285-288		RD14BB2C2R2J	RD 2.2 J 1/6W	
R289-292		RS14KB3DR22J	FL-PROOF RS 0.22 J 2W	
R293, 294		RD14BB2C751J	RD 750 J 1/6W	
R295, 296		RD14BB2E183J	RD 18K J 1/4W	
R297, 298		RD14BB2E100J	RD 10 J 1/4W	
R299		RD14BB2C102J	RD 1.0K J 1/6W	
VR1, 2		R31-0209-05	VARIABLE RESISTOR (5K)	

E: Europe **K:** North America **M:** Other Areas
W: Without Europe

 indicates safety critical components.

PARTS LIST

*New Parts

Parts without **Part No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Refer. No.	Added	Parts No.	Description	Destination
VR3 -6		R12-0606-05	TRIMMING POT. (330)	
S1 ,2		S62-0842-05	SLIDE SWITCH	
S3 ,4		S31-2630-05	SLIDE SWITCH	
S5		S62-0842-05	SLIDE SWITCH	
D1		RD7.5JS(B)	ZENER DIODE	
D2 -4		MA165	DIODE	
D5		RD10JS(B)	ZENER DIODE	
D6		MA165	DIODE	
D10		RM4ZLF-J1	DIODE	
D11 ,12		MA165	DIODE	
D13		FMU22S*A	DIODE	
D14		FMU22R*A	DIODE	
D15 -18		RD20JS(B)	ZENER DIODE	
D19 -22		RD7.5JS(B)	ZENER DIODE	
D23 -26		MA165	DIODE	
D27		RD15JS(B)	ZENER DIODE	
D28		RD5.1JS(B)	ZENER DIODE	
D101-104		MA165	DIODE	
D111-114		E-562	CONSTANT CURRENT DIODE	
D201-204		MA165	DIODE	
D211-214		E-562	CONSTANT CURRENT DIODE	
IC1 -4		UPC4574C	IC(OP AMP X4)	
IC5 ,6		M5219P	IC(OP AMP X2)	
IC7		UPC494C	IC(SWITCHING REGULATOR)	
Q1		2SC945(A)(Q,P)	TRANSISTOR	
Q2		2SA733(A)(Q,P)	TRANSISTOR	
Q3		2SC945(A)(Q,P)	TRANSISTOR	
Q4		2SA733(A)(Q,P)	TRANSISTOR	
Q5 ,6		2SC945(A)(Q,P)	TRANSISTOR	
Q7 ,8		* MTAJ50N05HDLFK	FET	
Q9 -12		2SC945(A)(Q,P)	TRANSISTOR	
Q13 ,14		2SA733(A)(Q,P)	TRANSISTOR	
Q15		2SC945(A)(Q,P)	TRANSISTOR	
Q101,102		2SC945(A)(Q)	TRANSISTOR	
Q103,104		2SC1627A	TRANSISTOR	
Q105,106		2SA817A	TRANSISTOR	
Q107,108		2SC4511*B	TRANSISTOR	
Q109,110		2SA1725*B	TRANSISTOR	
Q111,112		2SC945(A)(Q,P)	TRANSISTOR	
Q201,202		2SC945(A)(Q)	TRANSISTOR	
Q203,204		2SC1627A	TRANSISTOR	
Q205,206		2SA817A	TRANSISTOR	
Q207,208		2SC4511*B	TRANSISTOR	
Q209,210		2SA1725*B	TRANSISTOR	
Q211,212		2SC945(A)(Q,P)	TRANSISTOR	
TH1		ERT-D2ZHL103S	THERMISTOR	

Refer. No.	A d d	N e w	Parts No.	Description	Desti- nation

E: Europe **K:** North America **M:** Other Areas
W: Without Europe

 indicates safety critical components.

KAC-646X

SPECIFICATIONS

Specifications subject to change without notice.

Audio Section

Max Power Output (4 Ω)

4 Channel Mode	50 W \times 4
3 Channel Mode	50 W \times 2 + 140 W \times 1
2 Channel Mode	140 W \times 2

Rated Power Output (4 Ω)

4 Channel Mode	25 W \times 4 (20 Hz ~ 20 kHz, less than 0.08 % THD)
3 Channel Mode	25 W \times 2 (1 kHz, 0.08 % THD) + 70 W \times 1 (1 kHz, 0.8 % THD)
2 Channel Mode	70 W \times 2 (1 kHz, 0.8 % THD)

Rated Power Output (2 Ω)

4 Channel Mode	35 W \times 4 (1 kHz, 0.8 % THD)
----------------------	------------------------------------

Frequency Response 10 Hz ~ 45 kHz (+0, -1 dB)

Signal to Noise Ratio 100 dB

Sensitivity (MAX) 0.2 V (rated output)

Sensitivity (MIN) 4.0 V (rated output)

Input Impedance 10 k Ω

Low Pass Filter 80 Hz (12 dB/oct.)

High Pass Filter 150 Hz (12 dB/oct.)

General

Operating Voltage 14.4 V (11 ~ 16 V allowable)

Current Consumption (1 kHz, 10% THD) 22 A

Dimensions (W \times H \times D) 260 \times 52 \times 209 mm
(10-1/4 \times 2-1/16 \times 8-1/4 in.)

Weight 2.5 kg (5.5 lb)